OPERATION/PROGRAMMING

Spectra III™ Series

Models DD53TC16 & DD53TC16-X

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C2446M-D (1/04)

SPECTRA III™

OPERATION/PROGRAMMING MANUAL

MODELS DD53TC16 & DD53TC16-X

16X LowLight™ COLOR TECHNOLOGY

CONTENTS

WELCOME 5
GETTING STARTED 5

HOW TO OPERATE YOUR DOME SYSTEM 6
ACCESSING MAIN MENU (PRESET 95) 7
CM6700/CM6800 7
KBD200A/KBD300A (DIRECT MODE ONLY) 7
CM9500 7
CM9740/CM9760 7
KBD4000/KBD4002 (GENEX® MULTIPLEXER) 8
MPT9500 8
PELCONET™ 8

LANGUAGE 11

SYSTEM INFORMATION 12

DISPLAY SETUP 13
<LABEL POSITION> 14

DOME SETTINGS 15
<CAMERA> 15
AUTO FOCUS 15
ZOOM LIMIT 15
ZOOM SPEED 15
LOW LIGHT LIMIT 15
<ADVANCED CAMERA SETTINGS> 16
SHUTTER SPEED 16
AGC LIMIT 16
AUTO IRIS 17
AUTO SHARPNESS 18
AUTO WHITE BALANCE 18
BACKLIGHT COMPENSATION (BLC) 19
VIDEO LEVEL 19
<MOTION SETTINGS> 20
AUTO FLIP 20
PROPORTIONAL PAN 20
PARK TIME 21
SCAN SPEED 22
LIMIT STOPS 22
AZIMUTH ZERO 23
<POWER UP> 24
POWER UP ACTION 24
<LINE SYNC> 25
<PRESETS> 26
<PATTERNS> 27
<ZONES> 28

<ALERT> 29
REPEAT 29
ACK ACTION 30
ACTIVATE AUX 30
CURRENT READING 30
ALERT RESET 30
<CLEAR> 31
<PASSWORD> 32

RESET, CYCLE POWER, REBOOT 33
RESET CAMERA 33
CYCLE CAMERA POWER 33
REBOOT SYSTEM 33

SOFTWARE/LANGUAGE FILE UPLOAD 34
UPLOAD ICON 34

SPECIFICATIONS 35

REGULATORY NOTICES 36

WELCOME

Thank you for purchasing Pelco's premier integrated dome system, Spectra III. Your new system features a high resolution, color camera/optics package with LowLight™ technology and programmable dome drive software.

This manual is designed to be a reference tool for the operation and programming of your system. Inside you will find information about Spectra III's features and commands, as well as a detailed menu tree.

Getting Started

You will need to install your dome system before using this manual. Refer to the installation packet supplied with the back box for installation instructions.

Once installed apply power to the Spectra III dome system. The system will start a configuration sequence. When configuration is done, the following information is displayed:

Pelco Spectra III
*Version X.XX
D Address: 1
P Address: 2
Comm 2400, N, 8, 1

CONFIGURE DONE

This information will remain on the monitor until dome operation begins.

Refer to the following pages to learn how to operate and program your dome system.

* Pressurized Spectra III dome systems require software version 1.25 or higher to monitor temperature, pressure, and dew point.

HOW TO OPERATE YOUR DOME SYSTEM

Operation	How to Control
Pan and Tilt	Move joystick or press the direction keys left/right and up/down.
Zoom Far	To zoom far, do the following: 1. Press the Zoom Tele button or turn the joystick clockwise until zoom stops at the **32X zoom limit**. 2. Release the button or joystick for one second. 3. To continue zooming (digitally), press the button or turn the joystick clockwise again until you have the picture you want or reach the **digital zoom[1] limit**.
Zoom Wide	Press the Zoom Wide button or turn the joystick counterclockwise.
Scanning	
Stop Scan	Preset 96
Random Scan	Preset 97
Frame Scan	Preset 98
Auto Scan	Preset 99
Presets	Refer to the documentation supplied with the control system.
Patterns[2]	Refer to the documentation supplied with the control system.
Zones	Refer to the *Zones* section and to the documentation supplied with the control system.
Alarms	Refer to the *Alarms* section in this manual.
Auto Flip	Turn on or off in the programming menu. Refer to the *Auto Flip* section in this manual.

[1] Digital zoom magnifies the image electronically and the picture may appear pixilated. The larger the digital zoom limit the greater the reduction in resolution.

[2] The dome cannot do electronic zoom in a pattern. Optical zoom will operate in a pattern.

Accessing Main Menu (Preset 95)

You can call up the main menu on your monitor by programming (setting or creating) preset 95 (preset 28 if in AD32-preset mode).

Programming preset 95 for Pelco's controllers varies according to the type of controller you are using. Instructions for programming preset 95 are given below for various Pelco controllers.

CM6700/CM6800

1. Enter the number of the Spectra dome system and press the CAM key.
2. Enter 95 and hold the PRESET key for two seconds.
3. In the Edit Preset menu, arrow to SET and press the ACK key. The main menu appears.

KBD200A/KBD300A (DIRECT MODE ONLY)

1. Enter 95.
2. Hold the PRESET key (approximately five seconds) until the main menu appears on the screen.

CM9500

1. Enter the number of the Spectra dome system and press the CAM key. The Main menu appears.
2. Highlight SETUP in the Main menu and press the SELECT key.
3. Highlight CAM in the Setup menu and press the SELECT key.
4. Highlight PRESET in the Camera menu and press the SELECT key.
5. Enter 95 and press the F1 key. The main menu appears.

CM9740/CM9760

1. Press the ESCAPE key to open the Main menu. Select DEF. The Define Submenu appears.
2. Enter your four-digit PIN *if this is your first time entering this mode.*
3. Enter 95 and select PRST. The main menu appears on the monitor.
4. Select the Quit icon to return to the default menu.

(Continued on next page)

KBD4000/KBD4002 (GENEX® MULTIPLEXER)

1. Press the SPOT MONITOR key.
2. Enter 95, then hold the PRESET key (approximately five seconds) until the main menu appears on the screen.

MPT9500

Standard Coaxitron Mode

1. Enter 95 and press the PRESET SET key.
2. Press the F1 key, the main menu appears on the screen.

Extended Coaxitron or RS-485 Mode

1. Enter 95 and press the PRESET SET key.
2. Press the F2 key. The main menu appears.

PelcoNet™

1. Check the Set box.
2. Click the preset 95 button. The main menu appears.

Presets

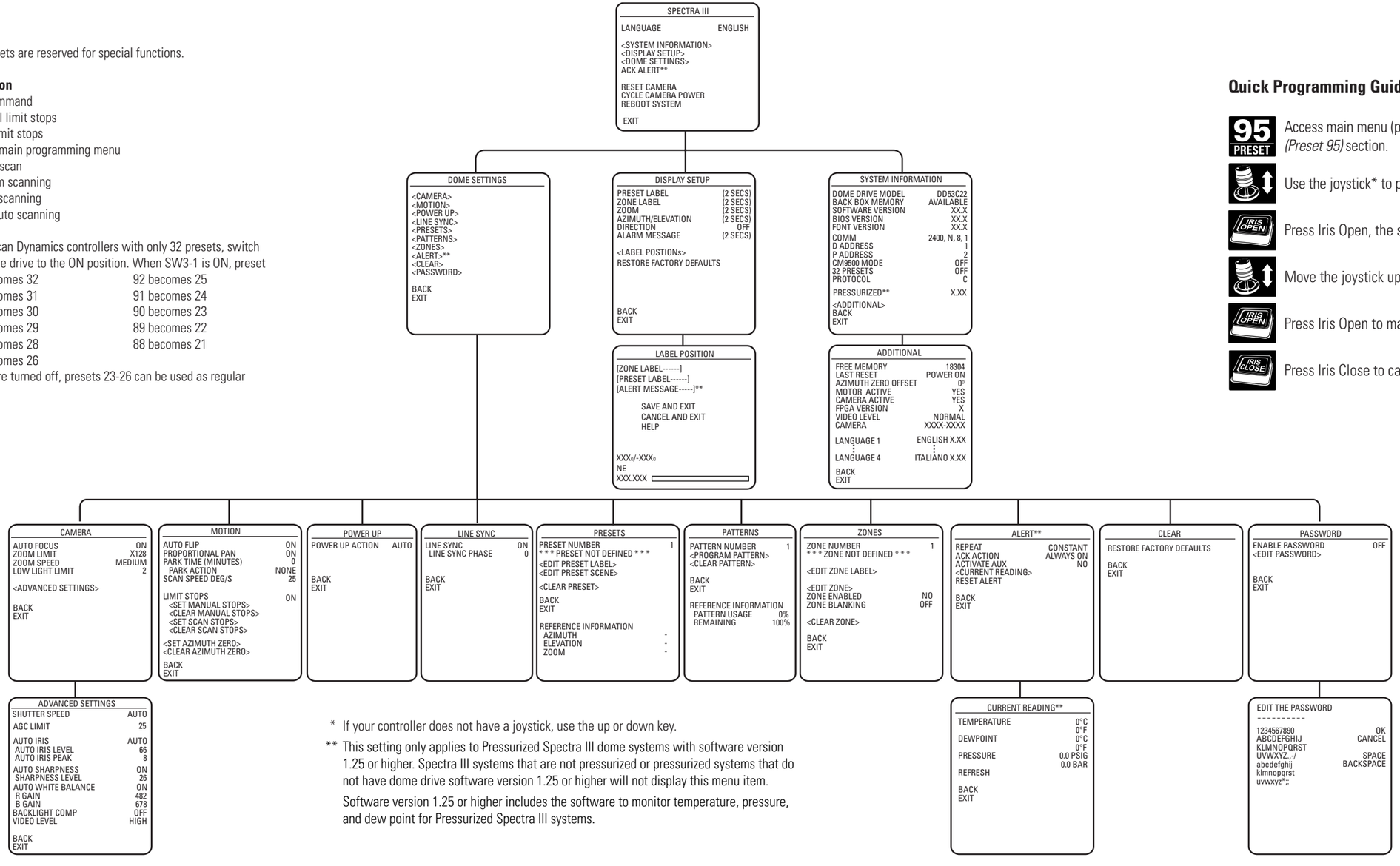
The following presets are reserved for special functions.

Preset	Function
33	Flip command
90-91	Manual limit stops
92-93	Scan limit stops
95	Select main programming menu
96	Stop a scan
97	Random scanning
98	Frame scanning
99	Start auto scanning

NOTE: For American Dynamics controllers with only 32 presets, switch SW3-1 on the dome drive to the ON position. When SW3-1 is ON, preset

99 becomes 32	92 becomes 25
98 becomes 31	91 becomes 24
97 becomes 30	90 becomes 23
96 becomes 29	89 becomes 22
95 becomes 28	88 becomes 21
93 becomes 26	

If the limit stops are turned off, presets 23-26 can be used as regular presets.



* If your controller does not have a joystick, use the up or down key.

** This setting only applies to Pressurized Spectra III dome systems with software version 1.25 or higher. Spectra III systems that are not pressurized or pressurized systems that do not have dome drive software version 1.25 or higher will not display this menu item.

Software version 1.25 or higher includes the software to monitor temperature, pressure, and dew point for Pressurized Spectra III systems.

Quick Programming Guide

95 PRESET — Access main menu (preset 95). See the *Accessing Main Menu (Preset 95)* section.

Use the joystick* to position the cursor beside menu selection.

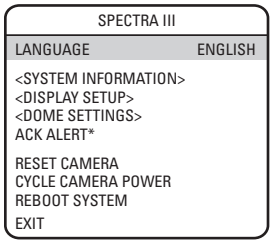
IRIS OPEN — Press Iris Open, the submenu/cursor moves to the right.

Move the joystick up or down to view selections.

IRIS OPEN — Press Iris Open to make selection.

IRIS CLOSE — Press Iris Close to cancel selection.

LANGUAGE



*This setting only applies to Pressurized Spectra III dome systems with software version 1.25 or higher.

The language for the on-screen menus is selectable. Available languages include English, Spanish, French, German, Italian, and Portuguese. The factory default language is English.

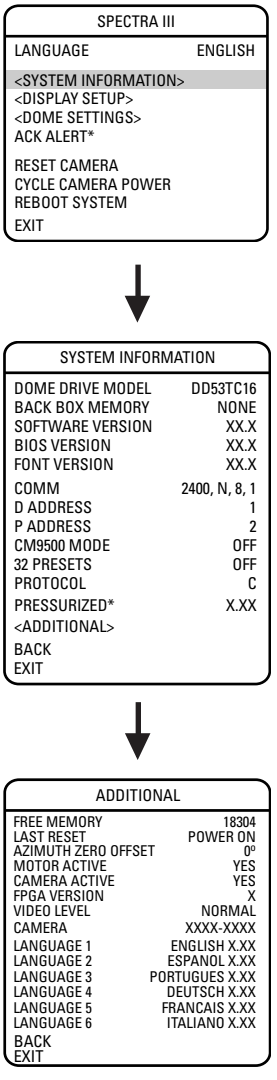
To change the display language:

1. Use the joystick to position the cursor beside LANGUAGE.
2. Press Iris Open. The cursor moves to the right, beside the current, selected language.
3. Move the joystick up or down to view selections. Press Iris Open to enter selection. All on-screen menus are changed to the selected language.

Quick Programming Guide

(See page 9)

SYSTEM INFORMATION



*This setting only applies to Pressurized Spectra III dome systems with software version 1.25 or higher.

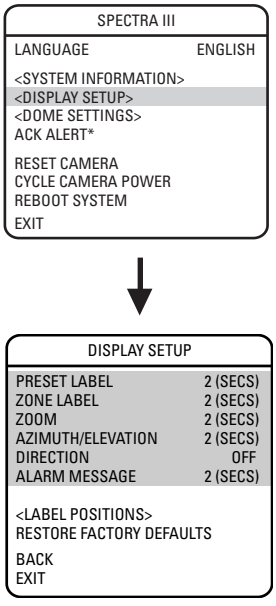
The system Information screen displays dome drive model, software version, available memory, and other diagnostic information.

System settings cannot be changed using this screen. This screen is for reference only.

Use the following steps to display the System Information screen:

1. Use the joystick to position the cursor beside SYSTEM INFORMATION.
2. Press Iris Open. The SYSTEM INFORMATION window opens.

DISPLAY SETUP



*This setting only applies to Pressurized Spectra III dome systems with software version 1.25 or higher.

Display setup allows you to program how labels are displayed on the monitor. The following labels are available:

PRESET LABEL - Identifies preset.

ZONE LABEL - Identifies zone.

ZOOM RATIO - Identifies the amount of magnification.

AZIMUTH[1]/ELEVATION[2] - Amount of pan from 0° and the amount of tilt from 0° horizontal.

DIRECTION - Displays compass direction.

ALARM MESSAGE - Displays activated alarm.

A preset label is displayed when a preset is called. A zone label is displayed when the system moves into a zone. The zoom ratio label is displayed when zoom is activated. Azimuth/elevation and direction labels are displayed when pan/tilt is activated. An alarm message appears on the monitor when an alarm occurs.

The following settings are available for each label:

OFF - Label is not displayed when activated.

CONSTANT - The label is continually displayed when activated.

2 SECONDS - The label is displayed for 2 seconds after activation.

5 SECONDS - The label is displayed for 5 seconds after activation.

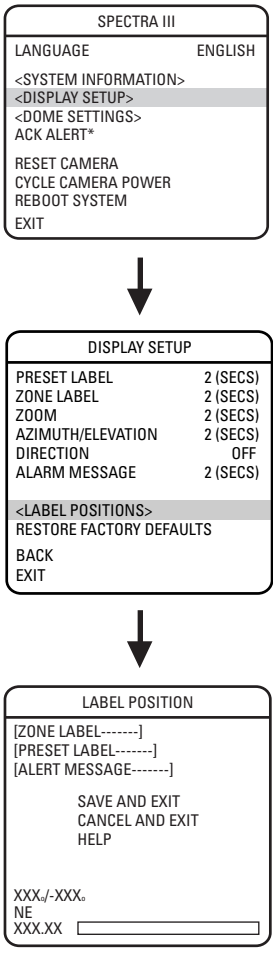
10 SECONDS - The label is displayed for 10 seconds after activation.

[1] Azimuth is the pan angle from 0° to 359°.
[2] Elevation is the tilt position from 0° (horizon) to -90°.

Quick Programming Guide

(See page 9)

<Label Position>



*This setting only applies to Pressurized Spectra III dome systems with software version 1.25 or higher.

Labels can be placed anywhere on the monitor. This feature allows you to customize the appearance of your monitor screen.

The following labels are not set at fixed positions:

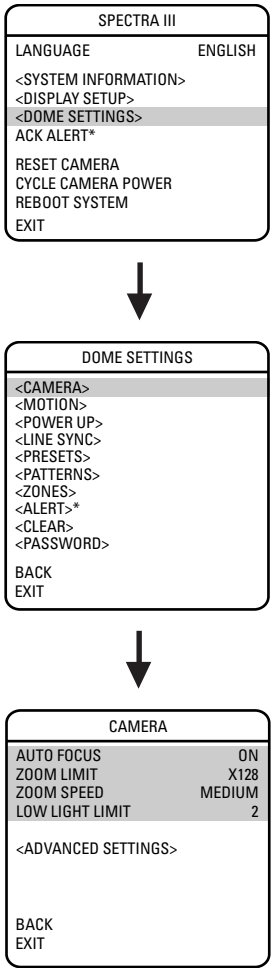
PRESET LABEL
ZONE LABEL
ZOOM RATIO - XXX.XX
AZIMUTH[1]/ELEVATION[2] - XXX°/-XX°
DIRECTION - NE
ALERT MESSAGE[3]*

To set a label position:

1. Use the joystick to position the cursor beside a label.
2. Press Iris Open.
3. Use the joystick to move the label up, down, left, and/or right.
4. Press Iris Open.
5. Repeat steps 1 through 4 to position other labels.
6. Position the cursor next to Save and Exit. Press Iris Open to save settings and exit menu.

[1] Azimuth is the pan angle from 0° to 359°.
[2] Elevation is the tilt position from 0° (horizon) to -90°.
[3] The alert message is the warning displayed on the monitor if pressure, temperature, or dew point inside the dome reach unacceptable levels.

<Camera>



*This setting only applies to Pressurized Spectra III dome systems with software version 1.25 or higher.

AUTO FOCUS

Auto focus allows the lens to remain in focus during zoom-in, zoom-out, and motion functions.

There are two auto focus settings:

ON (default) - If auto focus mode is set to ON, the camera will focus automatically when using pan, tilt, and zoom functions.

OFF - Focus is operated manually. To focus, press the Focus Far or Focus Near button on the controller.

ZOOM LIMIT

Zoom limit allows the user to define a limitation on the amount of telephoto zoom. The default setting is 128X.

Cameras with 128X zoom (16X optical zoom and 8X electronic zoom) can be set for 16X, 32X, 64X, or 128X.

ZOOM SPEED

Zoom Speed allows the user to define how fast the dome will go from full wide zoom to the 16X optical zoom. The default setting is MEDIUM.

Available settings for zoom speed include the following:
HIGH – 1.9 seconds
MEDIUM (default) – 3.6 seconds
LOW – 6 seconds

NOTE: When using the HIGH setting, the image may be out of focus until zooming stops.

LOW LIGHT LIMIT

Low light limit is the maximum duration, in fractions of a second, that the electronic shutter will remain open in low light conditions. The default setting is 2.

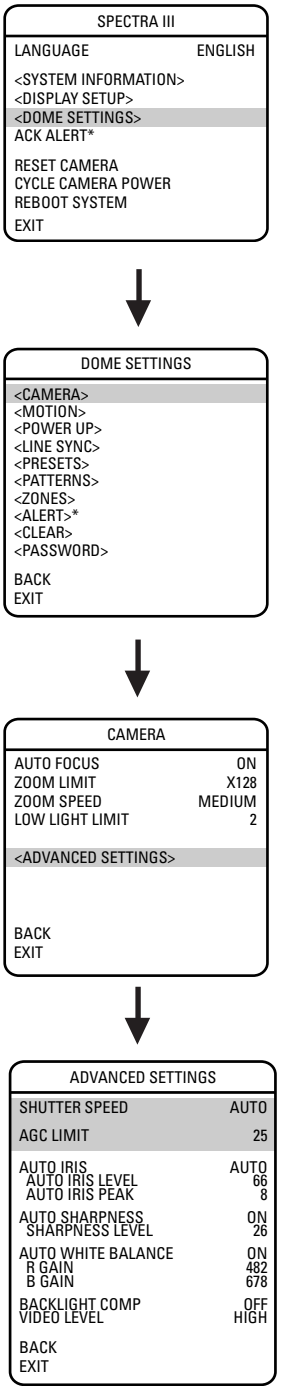
Settings include the following:

2 =1/2 second	8 = 1/8 second	30 =1/30 second
4 = 1/4 second	15 =1/15 second	60 =1/60 second

Quick Programming Guide

(See page 9)

<Advanced Camera Settings>



*This setting only applies to Pressurized Spectra III dome systems with software version 1.25 or higher.

SHUTTER SPEED

Shutter speed is the duration of the electronic shutter. Program shutter speed to operate automatically (Auto) or manually (Numeric Value).

AUTO (default) - The electronic shutter speed is set automatically by the amount of light sensed by the camera.

NUMERIC VALUE - Spectra III dome system has several numerical shutter speed settings. The higher the number, the faster the electronic shutter.

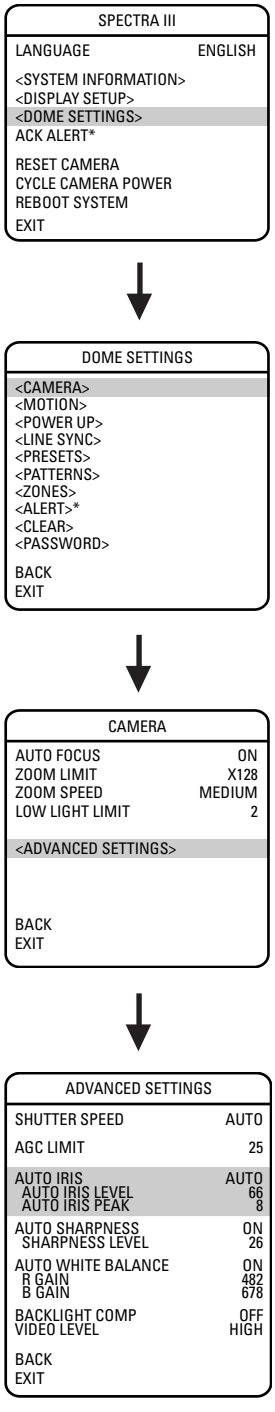
The slowest shutter speed setting is 2 = 1/2 second
The fastest setting is 30,000 = 1/30,000 second

Increasing the shutter speed lowers the light sensitivity and reduces the streaking of fast moving objects.

NOTE: Set the shutter speed to 100 if you are using an NTSC camera in a 50 Hz environment. This will eliminate any flicker that may occur in the picture.

AGC LIMIT

The AGC (automatic gain control) Limit adjusts the brightness of the picture. Settings range from 0 to 40. The brightness increases as the number gets higher.



*This setting only applies to Pressurized Spectra III dome systems with software version 1.25 or higher.

AUTO IRIS

Auto iris is the lens function that automatically opens and closes the iris in response to changing light conditions.

Program the auto iris to operate automatically or at a user-defined level.

OFF - Auto iris is disabled, and control is always manual.

AUTO (default) - The iris is adjusted automatically to produce a constant video output as determined by the Auto Iris Level setting.

NOTE: If auto iris is in the auto mode, it will remain that way until the iris is manually opened or closed. The dome will return to auto mode when it is panned or tilted more than 15 degrees.

Auto Iris Level

Auto Iris Level is the numeric value the auto iris uses to maintain the brightness level of the camera. Increase the value to brighten the scene. Decrease the level to darken the scene. This setting can be adjusted if the video level in the auto iris mode is too bright or too dark.

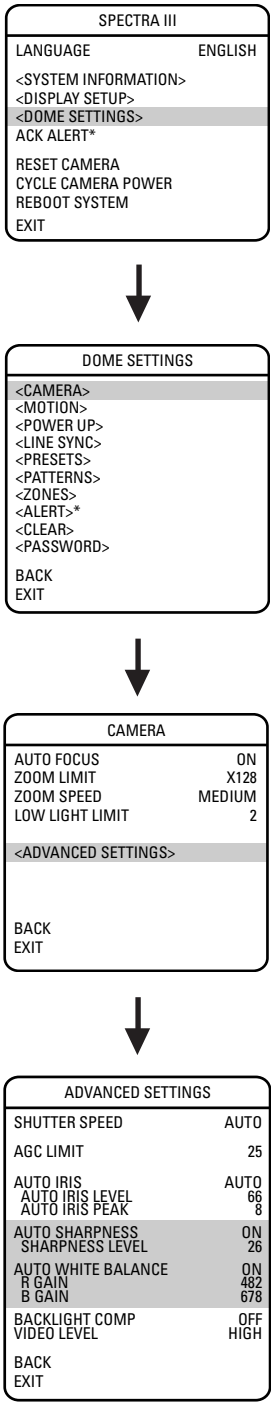
NOTE: If backlight compensation is ON, decrease the Auto Iris Level setting.

Auto Iris Peak

Increasing the peak value will cause the auto iris circuit to react more to highlights or "peaks" in the picture. Decreasing this value will cause it to use the average video level to adjust the iris.

Quick Programming Guide

(See page 9)



*This setting only applies to Pressurized Spectra III dome systems with software version 1.25 or higher.

AUTO SHARPNESS

Auto sharpness enhances picture detail by increasing the aperture gain of the camera and sharpening the edges in the picture.

There are two settings:

ON (default) - The camera automatically maintains a normal sharpness mode.

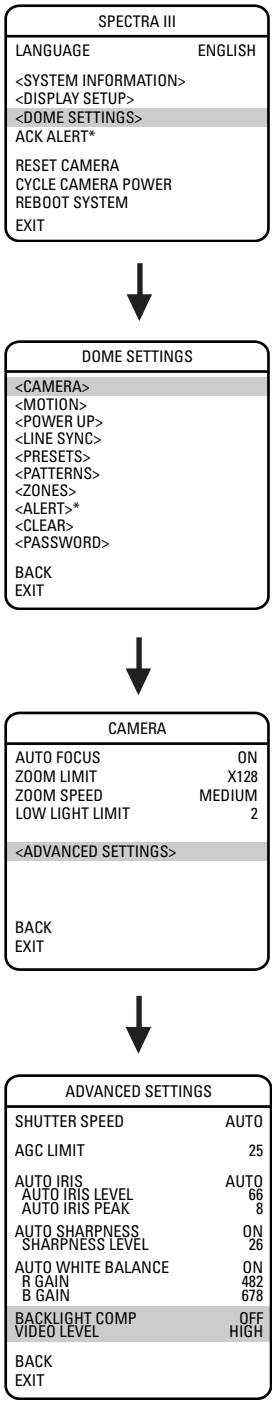
OFF - The sharpness of the picture is set manually by programming the SHARPNESS LEVEL. Sharpness level settings range from 0-31.

AUTO WHITE BALANCE

This feature automatically processes the viewed image to retain color balance over a color temperature range. The default setting for auto white balance is ON.

R GAIN - Adjusts the picture output in the red range. As you change the value, you will see the color change on your monitor.

B GAIN - Adjusts the picture output in the blue range. As you change the value, you will see the color change on your monitor.



*This setting only applies to Pressurized Spectra III dome systems with software version 1.25 or higher.

BACKLIGHT COMPENSATION (BLC)

If a bright backlight is present, the subjects in the picture may appear dark or as a silhouette. Backlight compensation enhances objects in the center of the picture. The dome uses the center of the picture to adjust the iris. If there is a bright light source outside of this area, it will wash out to white. The camera will adjust the iris so that the object in the sensitive area is properly exposed.

There are two backlight compensation settings:

ON - Backlight compensation is activated.

OFF (default) - Backlight compensation is not activated.

NOTE: If backlight compensation is ON, decrease the Auto Iris setting. Refer to the *Auto Iris* section.

VIDEO LEVEL

Set the video output to one of the following:

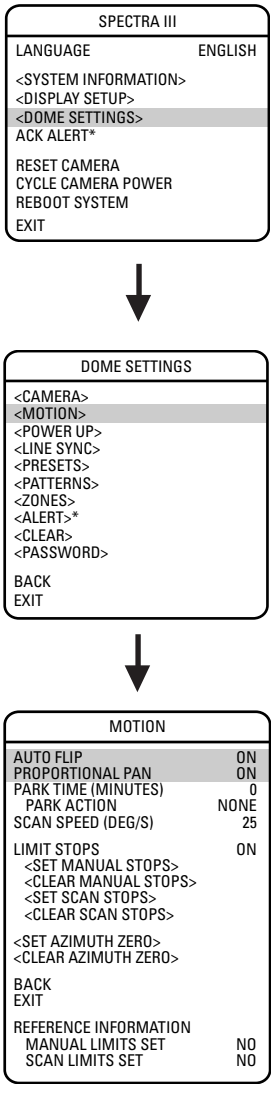
NORMAL - 1.0 volt peak-to-peak

HIGH (default setting) - 1.2 volt peak-to-peak to compensate for losses in video cable.

Quick Programming Guide

(See page 9)

<Motion Settings>



*This setting only applies to Pressurized Spectra III dome systems with software version 1.25 or higher.

AUTO FLIP

When the camera tilts downward and goes just beyond the vertical position, the dome rotates 180 degrees. When the dome rotates (flips), the camera starts moving upward as long as you continue to hold the joystick in the down position. Once you let go of the joystick after the dome rotates, joystick control returns to normal operation. The auto-flip feature is useful for following a person who passes directly beneath the dome.

There are two auto flip modes:

ON (default) - Auto flip mode is enabled.

OFF - Auto flip mode is disabled.

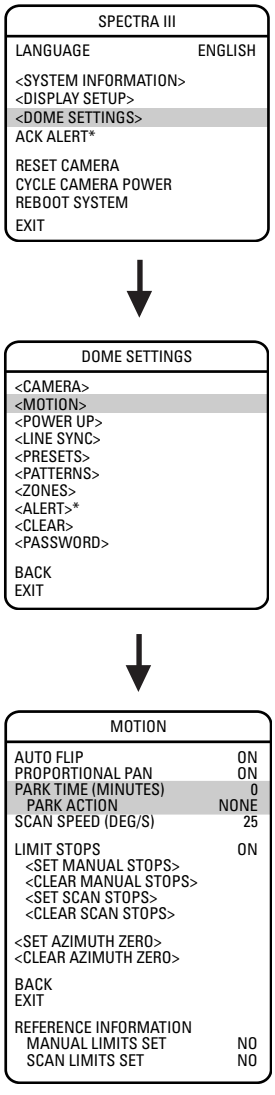
PROPORTIONAL PAN

Proportional pan automatically reduces or increases the pan and tilt speeds in proportion to the amount of zoom. At telephoto zoom settings, the pan and tilt speeds will be slower for a given amount of joystick deflection than at wide zoom settings. This keeps the image from moving too fast on the monitor when there is a large amount of zoom.

There are two proportional pan modes:

ON (default) - Enables the proportional pan mode.

OFF - Disables proportional pan mode. The pan speed will not depend on the amount of zoom.



*This setting only applies to Pressurized Spectra III dome systems with software version 1.25 or higher.

PARK TIME

This feature allows the dome to go to preset 1 after a programmed time of inactivity.

Park time can be programmed from 1 minute to 720 minutes (12 hours), or set to zero, which disables this feature. The default setting is zero.

Park Action

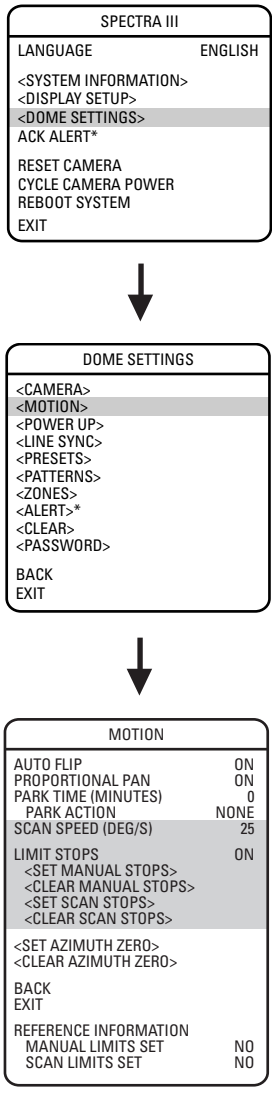
This feature will define the activity when the dome parks. The following settings are available:

NONE (default) - No action.

PRESET 1 - Dome goes to preset 1.

Quick Programming Guide

(See page 9)



*This setting only applies to Pressurized Spectra III dome systems with software version 1.25 or higher.

SCAN SPEED

Scan speed is the degrees per second that the dome will pan when in a scan mode. Scan speed is adjustable from 1 to 40 degrees per second through the programming menu. The default setting is 25 degrees per second.

LIMIT STOPS

Limit stops are programmable stops that limit the pan range of the dome. There must be two limits, a left and a right, to define an area.

There are two types of limit stops:

MANUAL - A manual (joystick) pan operation stops when a limit stop is reached.

SCAN - The dome reverses direction during random, frame, or auto scanning when a limit stop is reached.

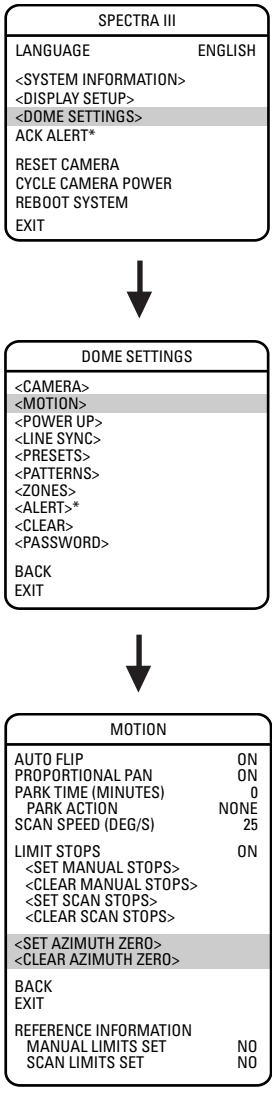
To set manual or scan stops:

1. Use the joystick to position the cursor beside SET MANUAL STOPS or SET SCAN STOPS.
2. Press Iris Open.
3. Follow the directions displayed on the monitor.

NOTE: In order for the manual or scan stops to work, the LIMIT STOPS setting must be ON.

To clear manual or scan stops:

1. Use the joystick to position the cursor beside CLEAR MANUAL STOPS or CLEAR SCAN STOPS.
2. Press Iris Open.
3. Follow the directions displayed on the monitor.



*This setting only applies to Pressurized Spectra III dome systems with software version 1.25 or higher.

AZIMUTH ZERO

Azimuth is the pan angle from 0° to 359°. Azimuth zero is the pan position you specify to be the 0° point. Azimuth zero is normally set to magnetic north. Once set, azimuth and compass readings are based on the set Azimuth Zero point.

To program azimuth zero:

1. Use the joystick to position the cursor beside SET AZIMUTH ZERO.
2. Press Iris Open.
3. Follow the directions displayed on the monitor.

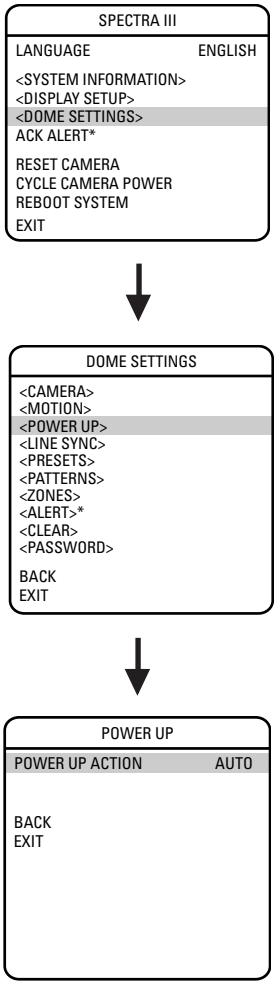
To clear azimuth zero:

1. Use the joystick to position the cursor beside CLEAR AZIMUTH ZERO.
2. Press Iris Open.
3. Follow the directions displayed on the monitor.

Quick Programming Guide

(See page 9)

<Power Up>



*This setting only applies to Pressurized Spectra III dome systems with software version 1.25 or higher.

POWER UP ACTION

This setting defines a specific activity (scan, preset, pattern) to be performed in the event the power to the dome is cycled.

The following settings are available:

NONE - No action.

AUTO SCAN - Dome starts auto scan operation.

RANDOM SCAN - Dome starts random scan operation.

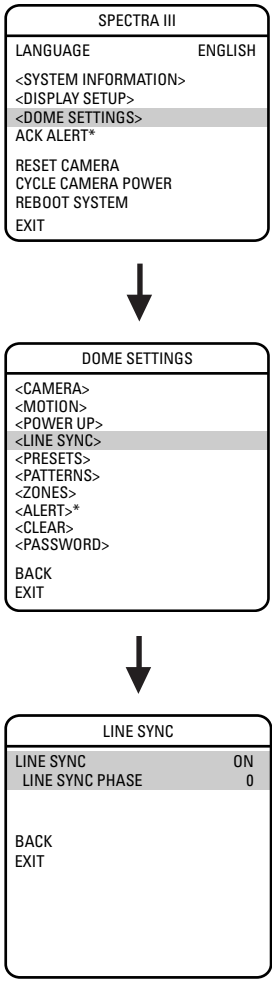
FRAME SCAN - Dome starts frame scan operation.

PRESET 1 - Dome goes to preset 1.

PRESET 8 - Dome goes to preset 8.

PATTERN 1 - Dome runs pattern 1.

<Line Sync>



*This setting only applies to Pressurized Spectra III dome systems with software version 1.25 or higher.

Line sync refers to a programmable function that allows you to synchronize all cameras within a matrix system.

NOTE: Spectra III automatically senses V-sync input. No line sync setup is required for Pelco control systems that provide a V-sync signal.

For matrix systems that do not output V-sync, there are two settings for line synchronization:

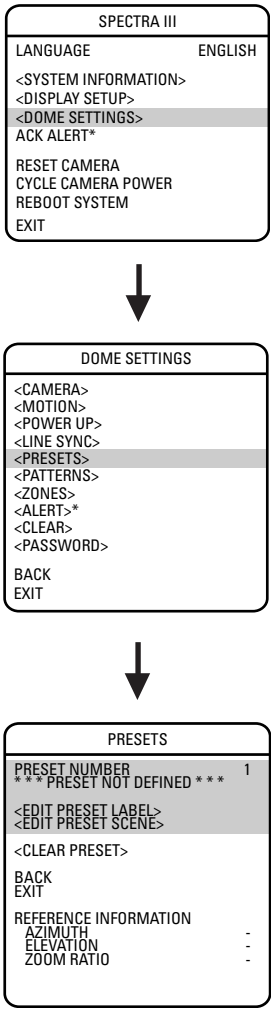
ON (default) - Adjusts the phase of the line sync to synchronize input power. LINE SYNC PHASE settings range from 0-359 degrees.

OFF - The dome synchronizes to an internal clock.

Quick Programming Guide

(See page 9)

<Presets>



*This setting only applies to Pressurized Spectra III dome systems with software version 1.25 or higher.

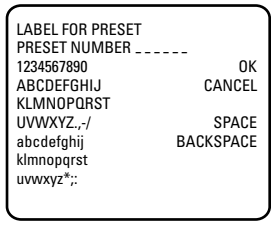
The Spectra III dome system has 40 programmable preset positions. Each preset can be programmed to use pan, tilt, and zoom functions.

The presets are numbered 1-32 and 35-42. Presets 33 and 34 are fixed commands that cannot be programmed. Preset 33 is the "flip" command, which will pan the dome drive 180 degrees. Preset 34 is the "pan zero" command, which will direct the dome drive to the factory-determined zero reference point.

Use the following steps to program a preset.

1. Select the preset number:
   a. Use the joystick to position the cursor beside PRESET NUMBER. Press Iris Open. The cursor moves to the right.
   b. Move the joystick up or down to view selections. Press Iris Open to enter selection.

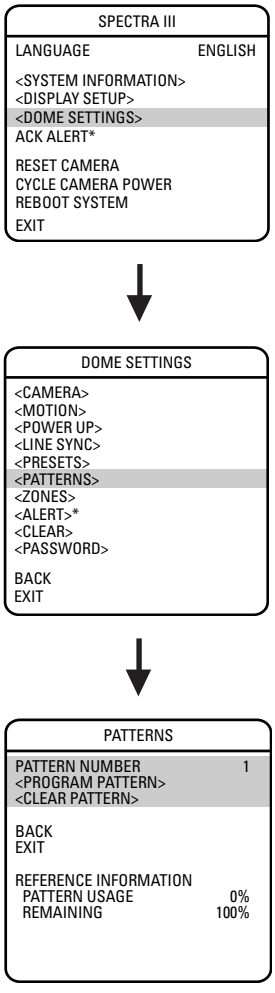
2. Edit the preset label:
   a. Use the joystick to position the cursor beside EDIT PRESET LABEL.
   b. Press Iris Open. The following appears on the monitor:



   c. Use the joystick to position the cursor beside a character. Press Iris Open to enter selection. To clear a character, position the cursor beside BACKSPACE, and then press Iris Open.
   d. When label is completed, move the cursor to OK. Press Iris Open to return to the Preset menu.

3. Edit the preset scene:
   a. Use the joystick to position the cursor beside EDIT PRESET SCENE.
   b. Press Iris Open.
   c. Follow the directions displayed on the monitor.

<Patterns>



*This setting only applies to Pressurized Spectra III dome systems with software version 1.25 or higher.

A pattern is a memorized, repeating, series of pan, tilt, zoom and preset functions that can be recalled with a command from a controller or automatically by a programmed function (alarm, park or power-up).

The Spectra III can handle one user-defined pattern. Pattern length is based upon memory usage rather than a fixed amount of time. The complexity of a pattern will determine the amount of storage available to program other patterns.

To program a pattern:

1. Use the joystick to position the cursor beside PROGRAM PATTERN.
2. Press Iris Open. The Patterns programming window appears on the monitor.
3. Follow the directions displayed on the monitor.

After a pattern is programmed, the remaining storage percentage is displayed on the screen.

To clear a pattern:

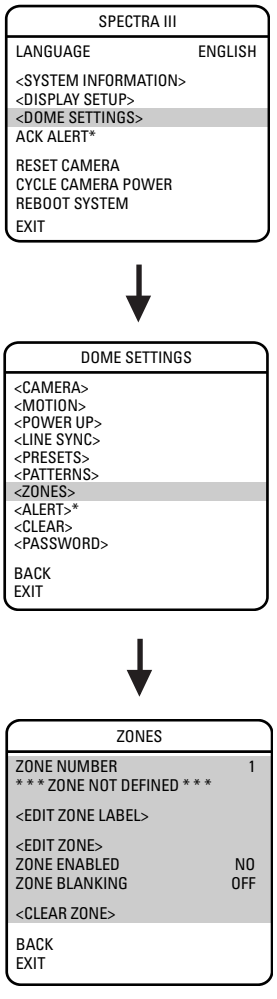
1. Use the joystick to position the cursor beside CLEAR PATTERN.
2. Press Iris Open.
3. Follow the directions displayed on the monitor.

NOTE: When programming one or more presets within a pattern use the normal controller commands to Call a Preset.

Quick Programming Guide

(See page 9)

<Zones>



*This setting only applies to Pressurized Spectra III dome systems with software version 1.25 or higher.

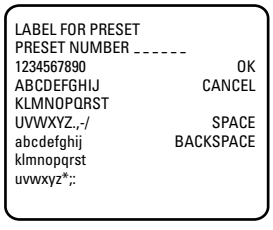
A zone is a pan area, defined by a left and right limit, on the 360-degree pan plane. The Spectra dome system is capable of eight zones, each with a 20-character label.

To program a zone:

1. Use the joystick to position the cursor beside ZONE NUMBER. Press Iris Open the cursor moves to the right.
2. Move the joystick up or down to view selections. Press Iris Open to enter selection.
3. Use the joystick to position the cursor beside EDIT ZONE.
4. Press Iris Open. The Zone programming window appears on the monitor.
5. Follow the directions displayed on the monitor. After the left and right limit stops are set, the Zones menu reappears with the ZONE ENABLED option set to YES.

To edit a zone label:

1. Use the joystick to position the cursor beside EDIT ZONE LABEL.
2. Press Iris Open. The following appears on the monitor:



3. Use the joystick to position the cursor beside a character. Press Iris Open to enter selection. To clear a character, position the cursor beside BACKSPACE, and then press Iris Open.
4. When the label is completed, move the cursor the OK. Press Iris Open to return to the Zones menu.

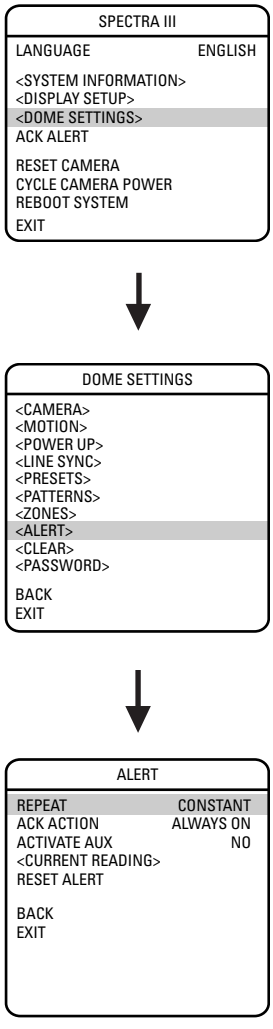
To disable a zone (a zone is enabled automatically when it is programmed) or to blank a zone:

1. Move the cursor beside ZONE ENABLED or ZONE BLANKING.
2. Press Iris Open. The cursor moves to the right.
3. Move the joystick up or down to view selections. Press Iris Open to enter selection.

To clear a zone:

1. Use the joystick to position the cursor beside CLEAR ZONE.
2. Press Iris Open. Follow the instructions on the screen.

<Alert>



NOTE: The *Alert* section only applies to Pressurized Spectra III dome systems with software version 1.25 or higher. Spectra III systems that are not pressurized or pressurized systems that do not have dome drive software version 1.25 or higher will not display this menu item.

Software version 1.25 or higher includes the software to monitor temperature, pressure, and dew point for Pressurized Spectra III systems.

Sensors strategically placed inside the pressurized dome system continually monitor pressure, temperature, and dew point. If internal conditions reach unacceptable levels, an alert message appears on the screen describing the alert condition. Example: If pressure drops below 1 psig, "LOW PRESSURE" is displayed on the monitor.

The following system conditions will trigger an alert message:

System Condition	Alert Message
Temperature is above 140°F (60°C)	HIGH TEMPERATURE
Temperature is below -40°F (-40°C)	LOW TEMPERATURE
Pressure is above 11 PSIG	HIGH PRESSURE
Pressure is below 1 PSIG	LOW PRESSURE
The difference between the temperature and the dew point is less than or equal to 3°C.	DEW POINT (HIGH HUMIDITY)

The alert message will be repeatedly displayed until the system controller acknowledges the alert condition by selecting ACK ALERT in the main menu. Once acknowledged, the alert message changes to the programmed acknowledge action (ACK ACTION). If the alert condition remains active after a period of time, the alert message reappears on the monitor, restarting the alert message cycle. This cycle will continue to repeat until the alert condition is resolved.

REPEAT

This setting programs how often an alert message is repeatedly displayed until the system controller acknowledges the alert condition. The following are the settings for REPEAT:

CONSTANT - The alert message is continuously displayed on the monitor until acknowledged.

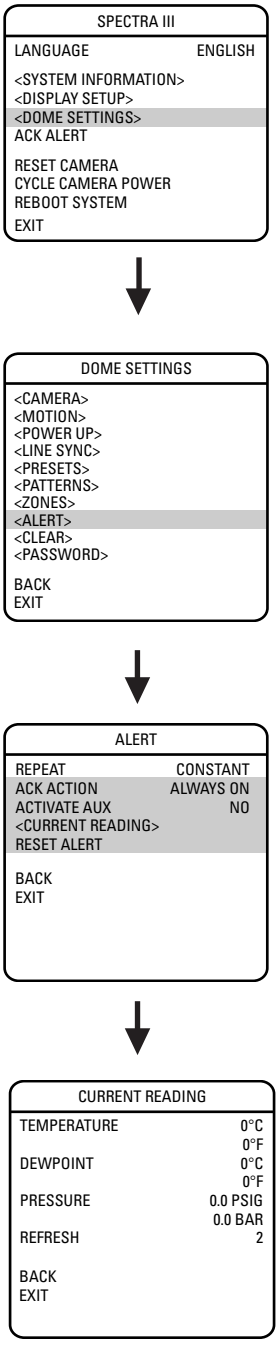
15 MIN - The alert message is displayed every 15 minutes for a 15-second duration until acknowledged.

30 MIN - The alert message is displayed every 30 minutes for a 15-second duration until acknowledged.

60 MIN - The alert message is displayed every 60 minutes for a 15-second duration until acknowledged.

Quick Programming Guide

(See page 9)



ACK ACTION

Acknowledge action programs the alert label behavior after the alert condition has been acknowledged. The following settings are available for ACK ACTION:

ALWAYS ON - The alert label is displayed until alert conditions are cleared.

OFF 8 HRS - The alert label is turned off for 8 hours. Label returns after 8 hours if the alert condition persists.

OFF 24 HRS - The alert label is turned off for 24 hours. Label returns after 24 hours if the alert condition persists.

OFF 48 HRS - The alert label is turned off for 48 hours. Label returns after 48 hours if the alert condition persists.

ACTIVATE AUX

This setting activates an auxiliary when an alert condition exists. ACTIVATE AUX settings include the following:

NO (default) - Not activated.

1 - An alert condition will close AUX 1.

2 - An alert condition will close AUX 2.

CURRENT READING

The Current Reading menu displays the existing status of temperature, pressure, and dew point inside the dome system. An arrow displayed to the left of a menu item denotes that an alert condition exists.

An up arrow indicates the reading is over the threshold. A down arrow indicates the reading is below the threshold.

The high temperature alert occurs if the temperature is above 140°F (60°C).

The low temperature alert occurs if the temperature is below -40°F (-40°C).

The high pressure alert occurs if the pressure is above 11 PSIG.

The low pressure alert occurs if the pressure is below 1 PSIG.

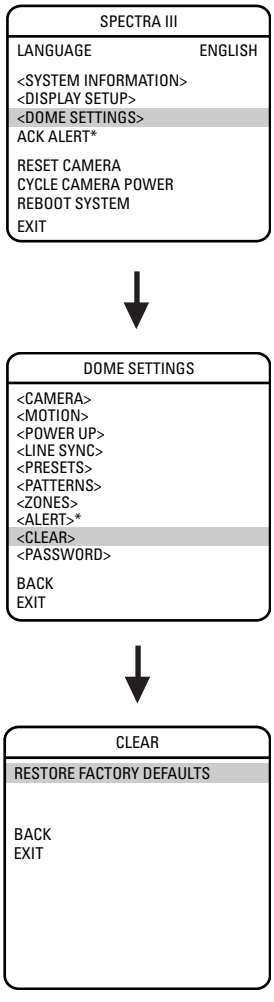
The dew point (high humidity) alert occurs if the difference between the temperature and the dew point is less than or equal to 3°C.

NOTE: The normal operating temperature inside the unit will be greater than the temperature outside the back box due to the heat emitted by the system's electronics.

ALERT RESET

Alert reset clears the alert condition and removes the alert label from the monitor. The system automatically checks internal conditions 60 seconds after reset. If conditions are still unacceptable, the alert label reappears on the screen indicating further corrective action is required.

<Clear>



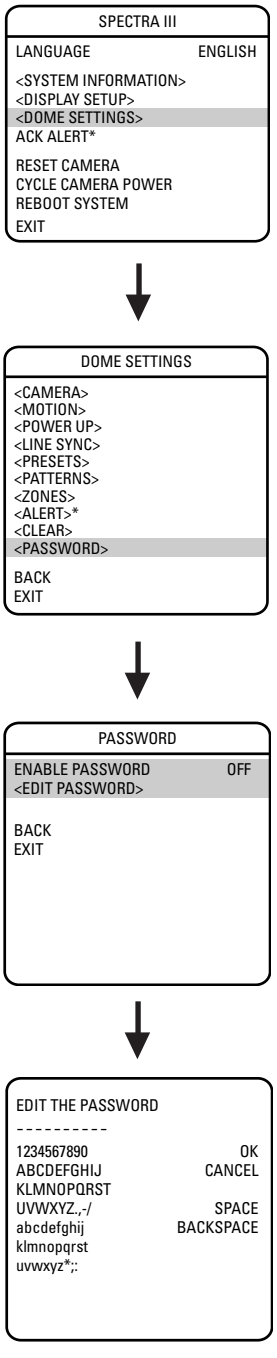
*This setting only applies to Pressurized Spectra III dome systems with software version 1.25 or higher.

Use this setting to return the dome to factory default settings.

Quick Programming Guide

(See page 9)

<Password>



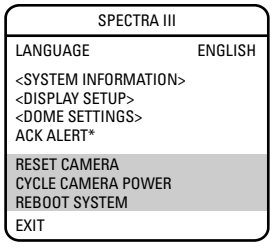
*This setting only applies to Pressurized Spectra III dome systems with software version 1.25 or higher.

Spectra III features password protection to prevent unauthorized changes to the dome settings. An operator can open the System Information and Display Setup Screens, but cannot access any of the Dome Settings menus.

Controller/keyboard commands cannot override password-protected settings. If a keyboard is used to set a preset, pattern, or zone, the Enter Password screen appears on the monitor. The password must be entered before programming can continue.

At least one character must be entered to create a valid password.

RESET, CYCLE POWER, REBOOT



*This setting only applies to Pressurized Spectra III dome systems with software version 1.25 or higher.

RESET CAMERA

Use this function to reset all camera settings to factory default parameters.

CYCLE CAMERA POWER

If the camera is not operating or if you lose camera control, cycle camera power. Cycling camera power resets the camera but does not change any saved camera settings.

REBOOT SYSTEM

Reboot the system if it is not operating or if there is no control. Rebooting the system will cycle dome and camera power without changing programmed dome settings.

Quick Programming Guide

(See page 9)

SOFTWARE/LANGUAGE FILE UPLOAD

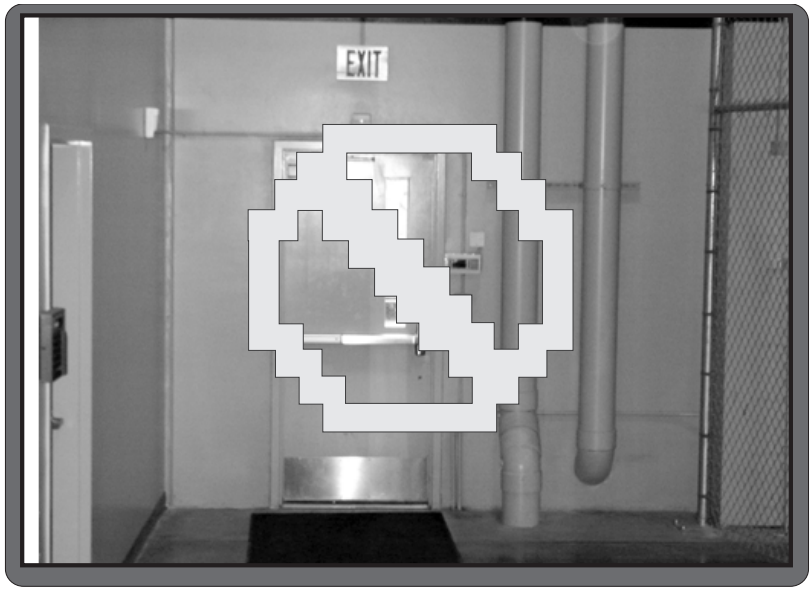
The RJ-45 data port of the dome drive allows access for on-site setup, testing, and uploading of revised operating software and language files. A Pelco field service tool is required to perform these operations. Field service tools include Pelco's remote monitor kit (IPS-RMK), remote data port box (IPS-RDPE-2), and remote monitor cable (IPS-CABLE).

For instructions on how to upload revised operating software and language files refer to the Installation/Operation manual supplied with the field service tool.

NOTE: Only perform software uploads when necessary. Software uploads do not need to be performed if the dome system is operating properly.

UPLOAD ICON

During a software/language file upload, an icon will appear on the monitor to indicate data is being transferred to the Spectra dome system (refer to the figure below). The default setting for data transmission is 115.2 KB per second. Noisy and long-run connections will slow the transmission rate.



Upload Icon

SPECIFICATIONS

DD53TC16

Signal Format	NTSC
Scanning System	2:1 Interlace
Image Sensor	1/4-inch interline transfer CCD
Effective pixels	724 (H) X 494 (V)
Horizontal Resolution	>470 TV lines
Lens	F1.4 (f=4~64 mm optical, 16X optical zoom, 8X electronic zoom)
Horizontal Angle of view	43° at 4 mm wide zoom; 3° at 64 mm telephoto zoom
Focus	Automatic with manual override
Maximum Sensitivity at 35 IRE	0.05 lux at 1/2 sec. shutter speed (color)
Sync System	Internal/AC line lock, phase adjustable via remote control, V-Sync
Shutter Speed	Automatic (electronic iris)/manual 1/2 ~ 1/30,000
Iris Control	Automatic iris control with manual override
Gain Control	Automatic/off
Video Output	1 Vp-p, 75 ohms
Video Signal to Noise	>46 dB

DD53TC16-X

Signal Format	PAL
Scanning System	2:1 Interlace
Image Sensor	1/4-inch interline transfer CCD
Effective pixels	724 (H) X 582 (V)
Horizontal Resolution	>460 TV lines
Lens	F1.4 (f=4~64 mm optical, 16X optical zoom, 8X electronic zoom)
Horizontal Angle of view	43° at 4 mm wide zoom; 3° at 64 mm telephoto zoom
Focus	Automatic with manual override
Maximum Sensitivity at 35 IRE	0.05 lux at 1/1.5 sec. shutter speed (color)
Sync System	Internal/AC line lock, phase adjustable via remote control, V-Sync
Shutter Speed	Automatic (electronic iris)/manual 1/1.5 ~ 1/30,000
Iris Control	Automatic iris control with manual override
Gain Control	Automatic/off
Video Output	1 Vp-p, 75 ohms
Video Signal to Noise	>46 dB

REGULATORY NOTICES

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RADIO AND TELEVISION INTERFERENCE
This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You may also find helpful the following booklet, prepared by the FCC: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington D.C. 20402.

Changes and Modifications not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commission's rules.

REVISION HISTORY

Manual #	Date	Comments
C2446M	2/02	Original version.
C2446M-A	4/02	Software revised.
C2446M-B	11/02	Revised Quick Start Guide.
C2446M-C	2/03	Manual revised to include features of software version 1.2.
C2446M-D	1/04	Added alert feature. Updated menus and instructions.

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